

SFQ ID NO.1FIG.1 a

GAATTCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(UPPER:SEQ ID NO.1)
	19(LOWER:SEQ ID NO.1)
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTATAAAAGATCACTTTTTATTATGCACAGGGTGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAAGG	419
F I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG	539
L T V P F W A H Y A A A Q W D F G N T M	179
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599
C Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCTGTCATGCTGTGTTTGCTTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCGTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACA	
H F P Y	

GAATTCCCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59(UPPER:SEQ ID NO.2)
	19(LOWER:SEQ ID NO.5)
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAGAGAGTTAATTCAATGTAGACAT	119
	39
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179
	59
TAAATACATTCTAGGACTTTTATAAAAGATCACTTTTTTATTTATGCACAGGGTGAACAAG	239
	79
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299
M D Y Q V S S P I Y D I N Y Y T S E P C	99
CAAAAAATCAATGTGAAGCAAATCGCAGCCCCGCTCCTGCCTCCGCTCTACTCACTGGTG	359
Q K I N V K Q I A A R L L P P L Y S L V	119
TTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAGG	419
I F G F V G N M L V I L I L I N C K R	139
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479
L K S M T D I Y L L N L A I S D L F F L	159
CTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG	539
T V P F W A H Y A A A Q W D F G N T M	179
TTTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599
Q L L T G L Y F I G F F S G I F F I I	199
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	659
L L T I D R Y L A V V H A V F A L K A R	219
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCCTCT	719
T V T F G V V T S V I T W V V A V F A S	239
CTCCCAGGAATCATCTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779
L P G I I F T R S Q K E G L H Y T C S S	259
CATTTTCCATACAGTCAGTATCAATTCTGGAAGAATTTCCAGACATTAAAGATAGTCATC	839
H F P Y S Q Y Q F W K N F Q T L K I V I	279

SEQ ID NO.2 FIG.1b

TTGGGGCTGGTCCTGCCGCTGCTTGTTCATGGTCATCTGCTACTCGGGAATCCTAAAACT 899
L G L V L P L L V M V I C Y S G I L K T 299

CTGCTTCGGTGTGCGAAATGAGAAGAAGAGGCACAGGGCTGTGAGGCTTATCTTCACCATC 959
L L R C R N E K K R H R A V R L I F T I 319

ATGATTGTTTATTTTCTCTTCTGGGCTCCCTACAACATTGTCTTCTCCTGAACACCTTC 1019
M I V Y F L F W A P Y N I V L L L N T F 339

CAGGAATTCTTTGGCCTGAATAATTGCAGTAGCTCTAACAGGTTGGACCAAGCTATGCAG 1079
Q E F F G L N N C S S S N R L D Q A M Q 359

GTGACAGAGACTCTTGGGATGACGCACTGCTGCATCAACCCCATCATCTATGCCTTTGTC 1139
V T E T L G M T H C C I N P I I Y A F V 379

GGGGAGAAGTTTCAGAACTACCTCTTAGTCTTCTTCCAAAAGCACATTGCCAAACGCTTC 1199
G E K F R N Y L L V F F Q K H I A K R F 399

TGCAAATGCTGTTCTATTTTCCAGCAAGAGGCTCCCGAGCGAGCAAGCTCAGTTTACACC 1259
C K C C S I F Q Q E A P E R A S S V Y T 419

CGATCCACTGGGGAGCAGGAAATATCTGTGGGCTTGTGACACGGACTCAAGTGGGCTGGT 1319
R S T G E Q E I S V G L * 439

GAGGCAGTCAGAGTTGTGCACATGGCTTAGTTTTTCATACACAGCCTGGGCTGGGGGTNGG 1379
459

TTGGNNGAGGTCTTTTTTAAAAGGAAGTTACTGTTATAGAGGGTCTAAGATTCATCCATT 1439
479

TATTTGGCATCTGTTTAAAGTAGATTAGATCCGAATTC

SEQ ID NO.2 (SUITE)

FIG.1c

GAATTCCTCCCAACAGAGCCAAGCTCTCCATCTAGTGGACAGGGAAGCTAGCAGCAAACC	59	UPPER:SEQ ID NO.3
	19	LOWER:SEQ ID NO.6
TTCCCTTCACTACAAAACCTTCATTGCTTGGCCAAAAAGAGAGTTAATTCATGTAGACAT	119	
	39	
CTATGTAGGCAATTAAAAACCTATTGATGTATAAAACAGTTTGCATTCATGGAGGGCAAC	179	
	59	
TAAATACATTCTAGGACTTTTATAAAAGATCACTTTTTATTTATGCACAGGGTGGAACAAG	239	
	79	
ATGGATTATCAAGTGTCAAGTCCAATCTATGACATCAATTATTATACATCGGAGCCCTGC	299	
M D Y Q V S S P I Y D I N Y Y T S E P C	99	
CAAAAAATCAATGTGAAGCAAATCGCAGCCCGCCTCCTGCCTCCGCTCTACTCACTGGTG	359	
Q K I N V K Q I A A R L L P P L Y S L V	119	
TTTCATCTTTGGTTTTGTGGGCAACATGCTGGTCATCCTCATCCTGATAAACTGCAAAGG	419	
F I F G F V G N M L V I L I L I N C K R	139	
CTGAAGAGCATGACTGACATCTACCTGCTCAACCTGGCCATCTCTGACCTGTTTTTCCTT	479	
L K S M T D I Y L L N L A I S D L F F L	159	
CTTACTGTCCCCTTCTGGGCTCACTATGCTGCCGCCAGTGGGACTTTGGAAATACAATG	539	
F T V P F W A H Y A A A Q W D F G N T M	179	
TGTCAACTCTTGACAGGGCTCTATTTTATAGGCTTCTTCTCTGGAATCTTCTTCATCATC	599	
E Q L L T G L Y F I G F F S G I F F I I	199	
CTCCTGACAATCGATAGGTACCTGGCTGTCGTCCATGCTGTGTTTGCTTTAAAAGCCAGG	659	
L L T I D R Y L A V V H A V F A L K A R	219	
ACGGTCACCTTTGGGGTGGTGACAAGTGTGATCACTTGGGTGGTGGCTGTGTTTGCCTCT	719	
T V T F G V V T S V I T W V V A V F A S	239	
CTCCCAGGAATCATCTTTTACCAGATCTCAAAAAGAAGGTCTTCATTACACCTGCAGCTCT	779	
L P G I I F T R S Q K E G L H Y T C S S	259	
CATTTTCCATACATTAAAGATAGTCATCTTGGGGCTGGTCCTGCCGCTGCTTGTCATGGT	839	
H F P Y I K D S H L G A G P A A A C H G	279	

SEQ ID NO.3FIG.1d

CATCTGCTACTCGGGAATCCTAAAACTCTGCTTCGGTGTGCGAAATGAGAAGAAGAGGCA	899
H L L L G N P K N S A S V S K *	299
CAGGGCTGTGAGGCTTATCTTCACCATCATGATTGTTTATTTTCTCTTCTGGGCTCCCTA	959
	319
CAACATTGTCCTTCTCCTGAACACCTTCCAGGAATTCTTTGGCCTGAATAATTGCAGTAG	1019
	339
CTCTAACAGGTTGGACCAAGCTATGCAGGTGACAGAGACTCTTGGGATGACGCACTGCTG	1079
	359
CATCAACCCCATCATCTATGCCTTTGTGCGGGGAGAAGTTCAGAACTACCTCTTAGTCTT	1139
	379
CTTCCAAAAGCACATTGCCAAACGCTTCTGCAAATGCTGTTCTATTTTCCAGCAAGAGGC	1199
	399
TCCCAGCGAGCAAGCTCAGTTTACACCCGATCCACTGGGGAGCAGGAAATATCTGTGGG	1259
	419
CTTGTGACACGGACTCAAGTGGGCTGGTGACCCAGTCAGAGTTGTGCACATGGCTTAGTT	1319
	439
TTGATACACAGCCTGGGCTGGGGGTNGGTTGGNNGAGGTCTTTTTTAAAAGGAAGTTACT	1379
	459
GTTATAGAGGGTCTAAGATTCATCCATTTATTTGGCATCTGTTTAAAGTAGATTAGATCC	1439
	479
GAATTC	

SEQ ID NO.3 (SUITE)

FIG.1e

FIG. 2

I		II	
CCR5	1 M Y Q V S S P I Y D I N Y T S E P C Q K I N V K Q I A R I L P P L Y S I V F I F G E V G N M L V I L I N C K R L K S M T D I Y L I N L A I S D I I F I I T	83	
HCC-R2b	MLSTSRSRFTRN'NESGEEVTTFTFYDYGAPOHKEFAVKQI L A G I L P P L Y S I V F I F G E V G N M L V I L I N C K K I K C I P D I Y L L N L A I S D I I F I I T	95	
HCC-R3	MTTSI I I V E T F G T S Y D D V G L I I E K A D T R A L M A Q F V P P L Y S I V F I F G I I G N V V V M I L I J K Y R R I R I M T I I Y L L N L A I S D I I F I I T	87	
HCC-R1	METPNTEEDYDTTTEFDYGDATPCQKVN'NERAFGPQLLPPLYSIVFVJEGVGNILVVI VQYKRLKNTS I Y L L N L A I S D I I F I I T	87	
HCC-R4	MNPTDIADTLDESIYSN I Y L Y E S I P K P C I K E G I K A F G E L I L P P L Y S I V F I F G I I G N S V V V I V F K Y K R I R S M T D I Y L L N L A I S D I I F I I T	92	
III		IV	
CCR5	V P F W A H Y A A A Q W D F G N I M C Q L L T G I X F I G F F S G I F F I I L I T I D R Y I A V H A V F A I K A R T V T F G V V T S V I T W V A V F A S L P G I I F I R Q K E G I I	177	
HCC-R2b	I P I W A H I A A A N E M V F G N A M C K I F T G L Y I I G F F I G I F F I I L I T I D R Y I A V H A V F A I K A R T V T F G V V T S V I T W V A V F A S L P G I I F I R Q K E I D S V	189	
HCC-R3	I P F W I I Y V R G I N W F C H I C M C N L I E G F Y I T C L Y S E I F F I I L I T I D R Y I A V H A V F A I R A R T V T F G V I T F I V T W G I A V A R I L E F I I Y E T F E L F E E	182	
HCC-R1	I P F W I I Y K I K D I W F G D A M C K I L S G F Y T G L Y S E I F F I I L I T I D R Y I A V H A V F A I R A R T V T F G V I T S I I I W A I A I I A S M P C L Y F S K T W E F I I	182	
HCC-R4	I P F W G Y Y A A I Q W V E G L G I C K M I S W M Y L V G E Y S G I F F I F V M M S I D R Y I A V H A V F A I R A R T I I V G V I T S L A T W S V A V F A S L P G I I E S T C Y T E R N E	186	
V		VI	
CCR5	Y T C S I I F P Y S Q Y F W K N F Q T L K T V I L G L V L P L I A V M V I C Y S G T L K T I L R C R N E K K R I R A V R L I F T I M I V F L E W A P Y N I V L L I N T F Q E F F G L I N N C	272	
HCC-R2b	M G I Y P T A G . . . W N E I I I T M R N I L G L V L P L I I M V T C Y S G T L K T I L R C R N E K K R I R A V R V I F T I M I V F L E W P Y N I V I L I N T F Q E F F G L I N N C	280	
HCC-R3	T I I A A L Y E D T V Y S W R I I F I I T R M T I I F C I V I P L I A V M I C Y I G I I K T I L R C R N E K K Y K A I I I I V I M A V F I F F W I P Y N V A I I I S S Y I I I F C I I	27	
HCC-R1	I I C S I I F E P H E S L R E W K L F C A L K L N L F G L V L P L I A V M I C Y I G I I K I L L R R F N E K K S K A V R I I F V I M I I F F L F W I P Y N L T I I I S V F Q D E L F E T H E C	276	
HCC-R4	T Y C K T K Y S I N S T I W K V L S S E I N I L G L V I P I G I M I F C Y S M I R T L Q H K N E K K N K A V K M I E A V V V L F L G F W P Y N I V I F I E T L V E L E V I Q D C	279	
VII		VIII	
CCR5	S S I N R I D Q A M Q V T E T L G M T H C C I N P I I Y A F V G E K F R N Y I L L V F E C K I I T A K R F C K C S I F C L E A I E R A S S V Y I K S T G E Q E I S M G I	352	
HCC-R2b	F P I S Q I D Q A I Q V T E T L G M T H C C I N P I I Y A F V G E K F R Y I S V F F K K I I T F C K C P V F T K P V D G V T I T N I I S T G E Q E N S A G I	360	
HCC-R3	E R I K H I I D V I V I V E V T A Y S H C C N H I I Y A F V G E I R K Y I R I I F I I I I I M I I G R Y I P E L E K I E R I S S V S I S I I F I I S I V F	355	
HCC-R1	E L E K H I I D A M Q V T E V I A V T H C C V N I I Y A F V G E I R K Y I R Q I I R R V A V I I M W I P F L S V D R I E R V S I S I S T G E I I S A C I	355	
HCC-R4	T F E R Y L D V A I Q A T E T L A F V H C C I N P I I Y I F I G E K F R K Y I I Q L E K I I G L F V I Q Y Q G L I I Y S A D T H S S Y T Q S T M D H D L H D A I	360	

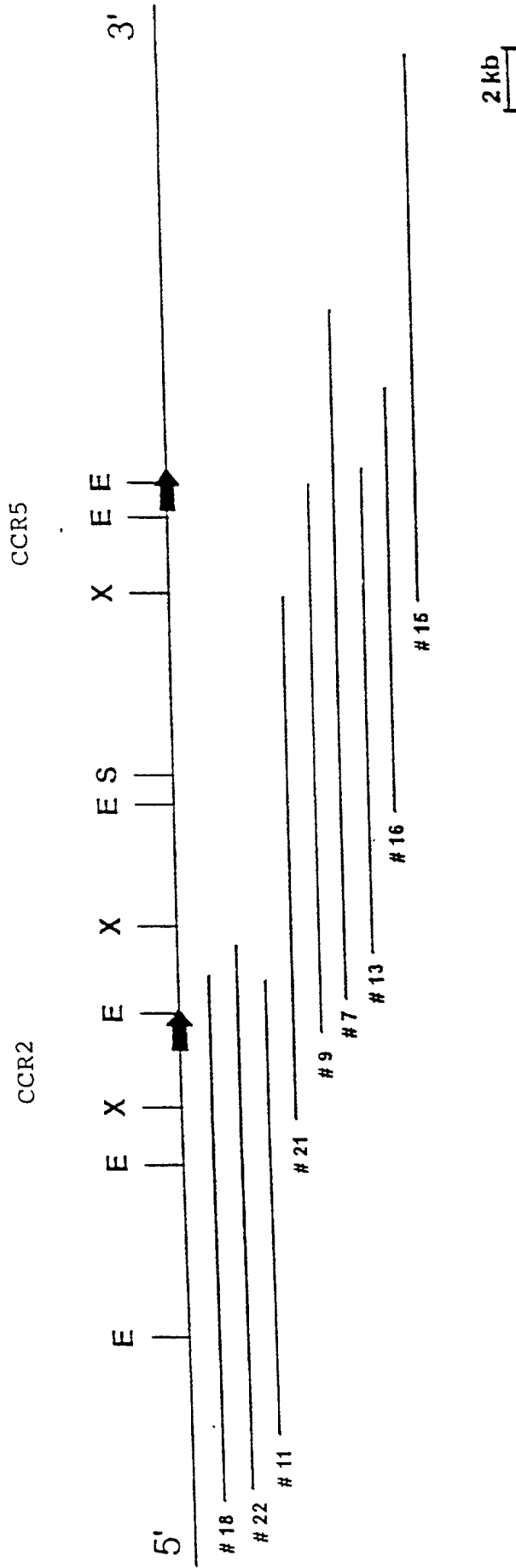


FIG. 3

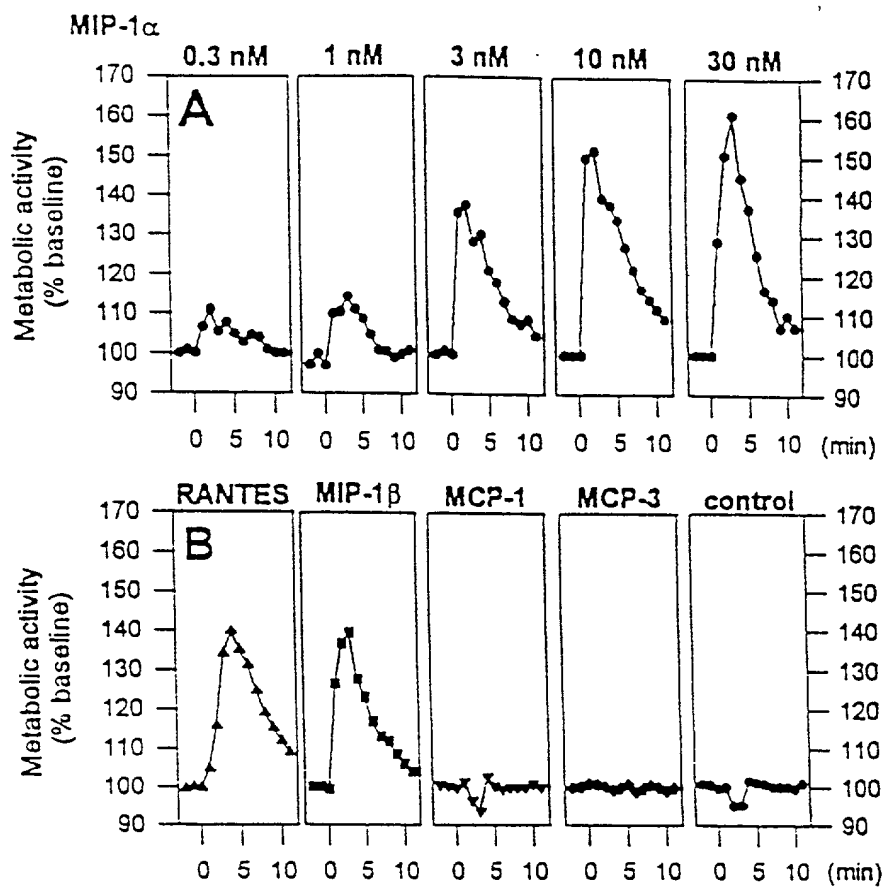


FIG. 4a

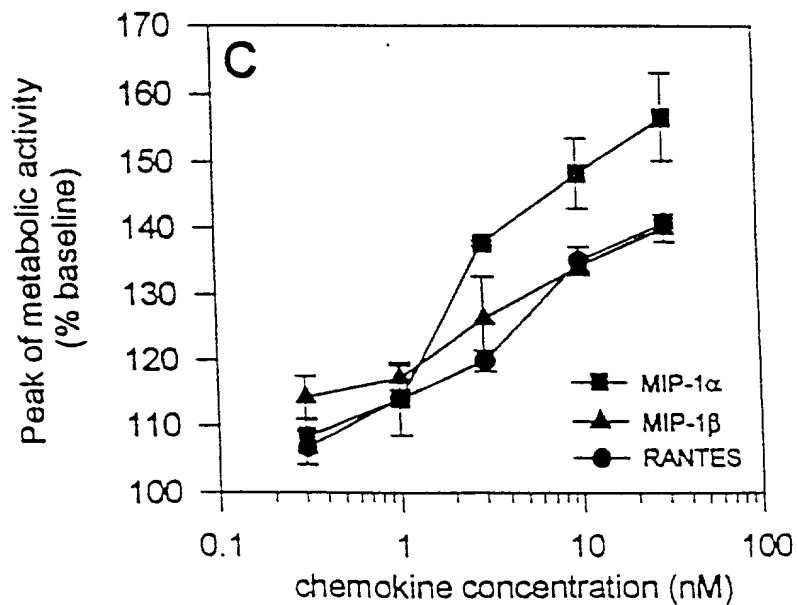


FIG. 4b

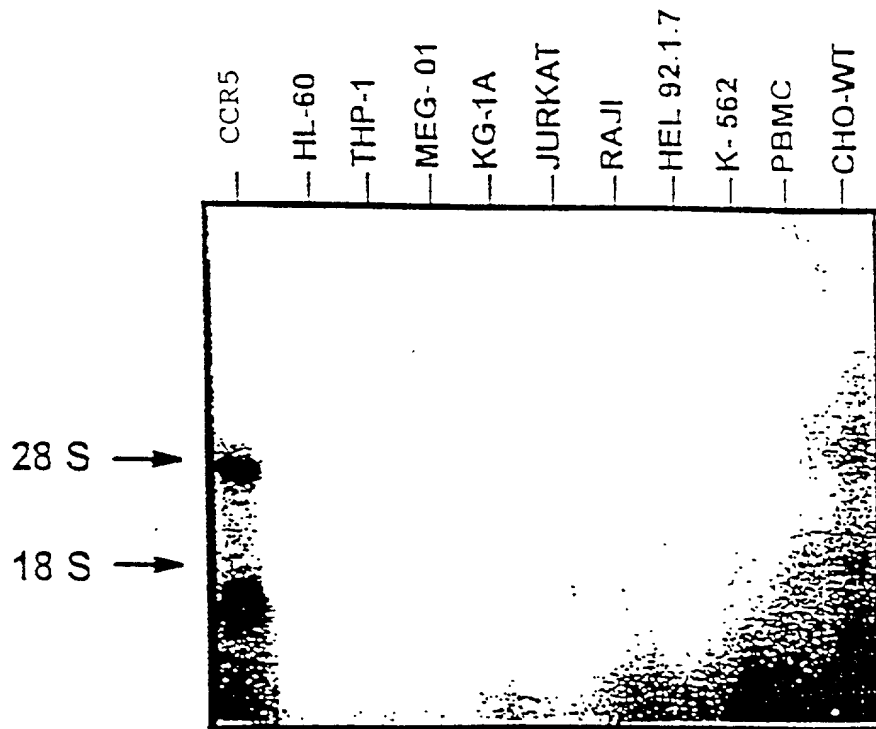


FIG.5

T04280" 9226E65D

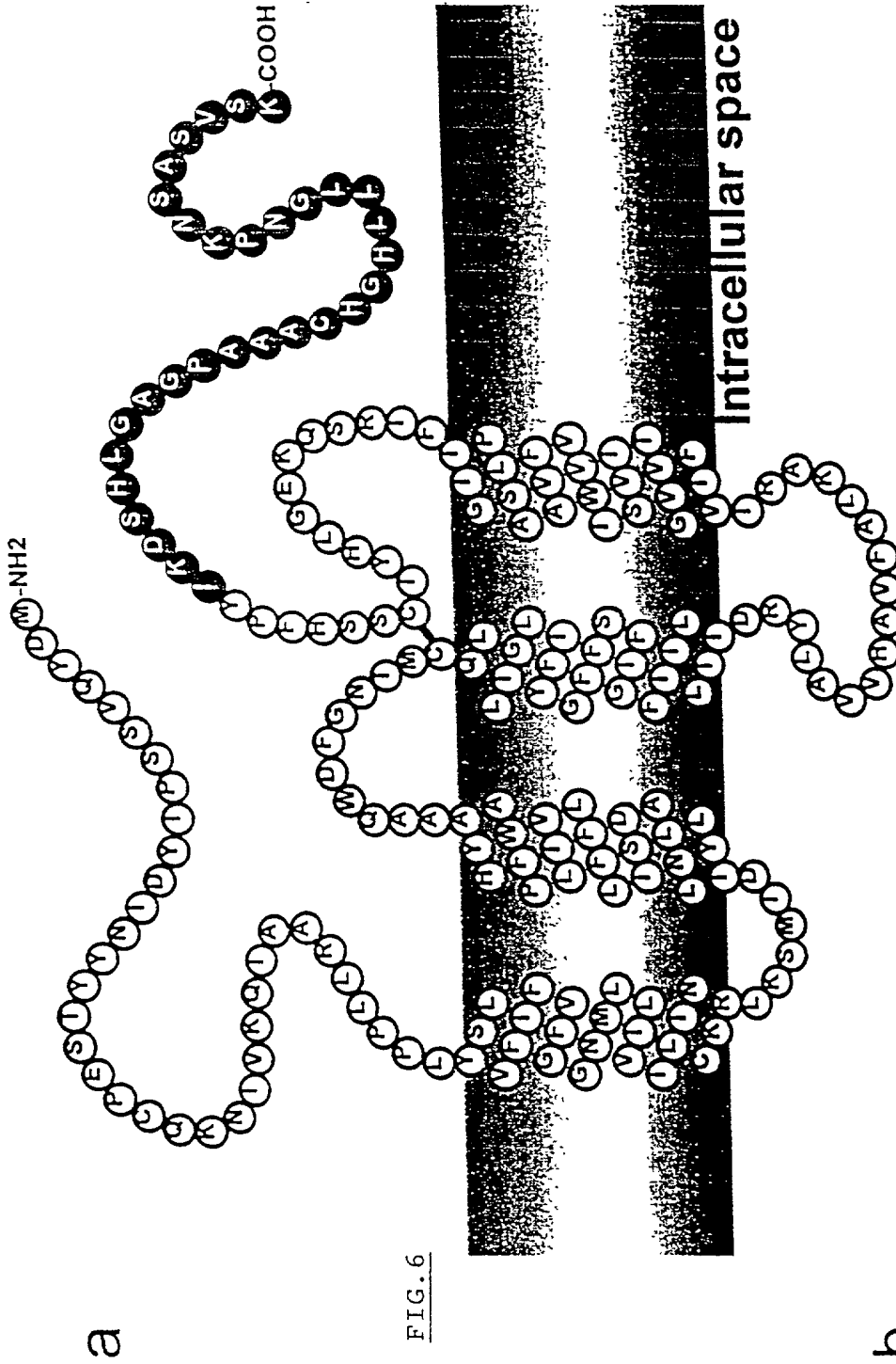
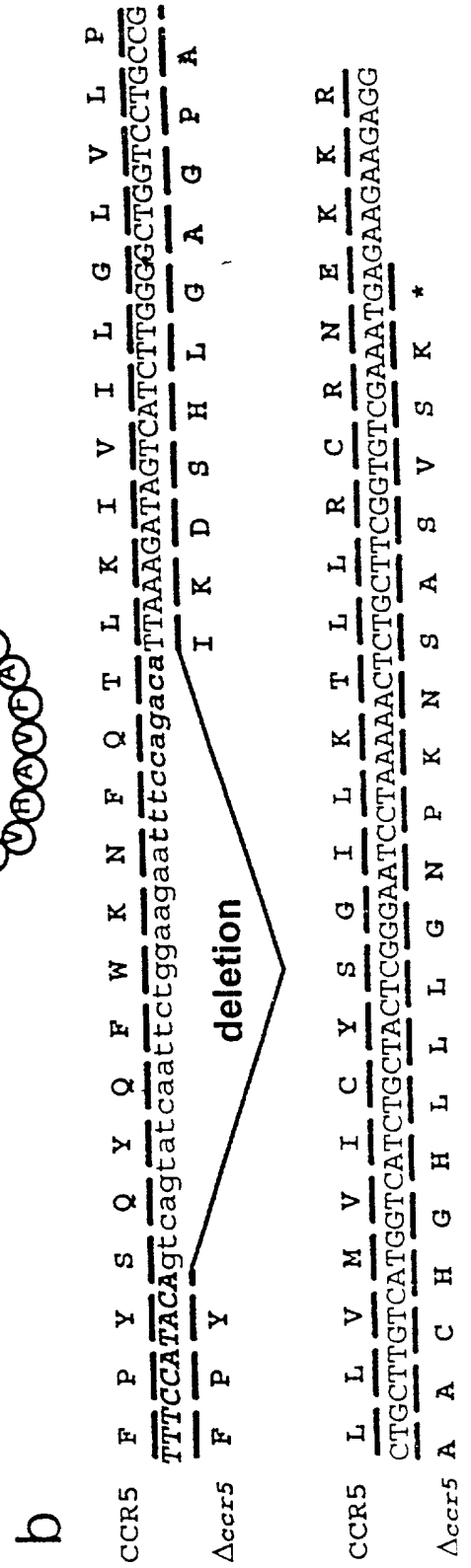


FIG. 6



A.

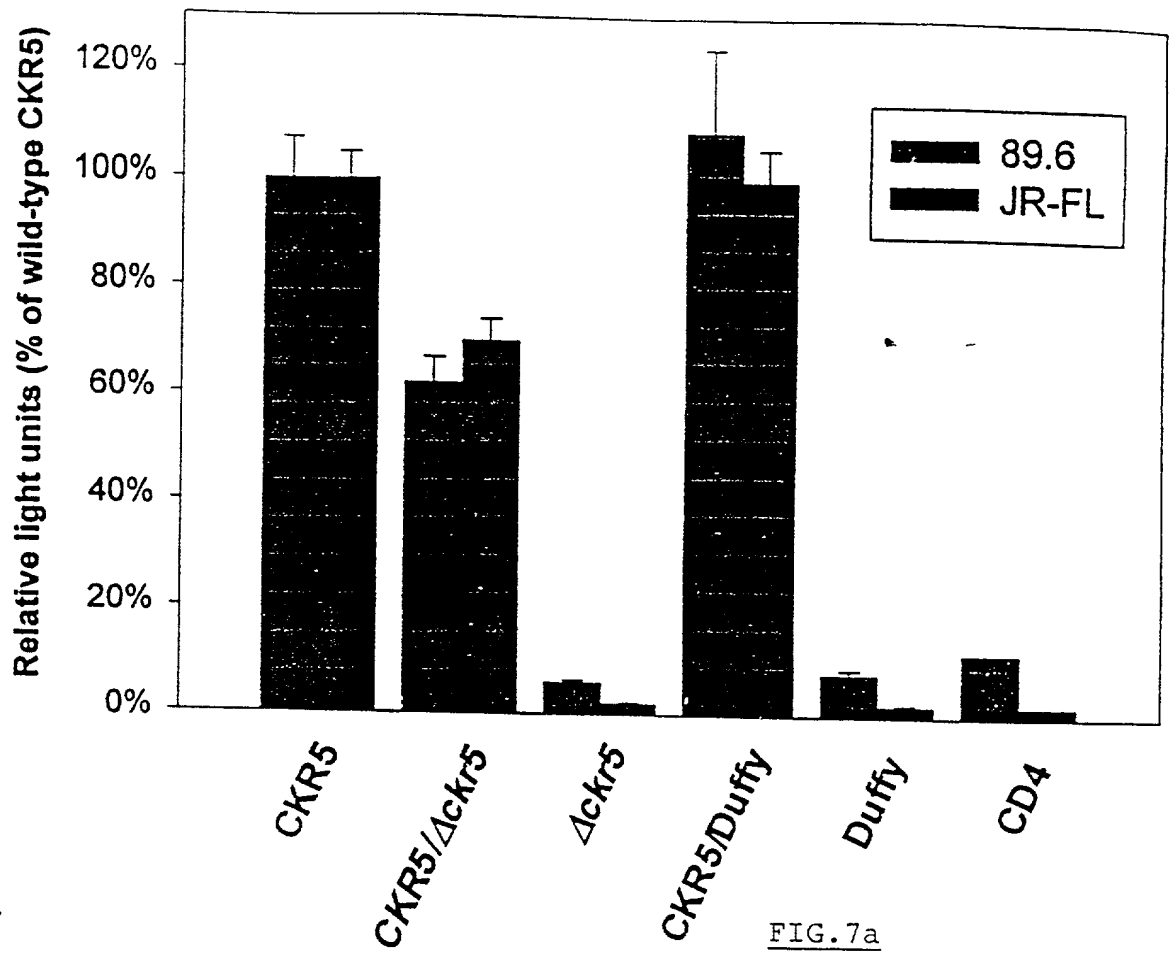


FIG. 7a

B.

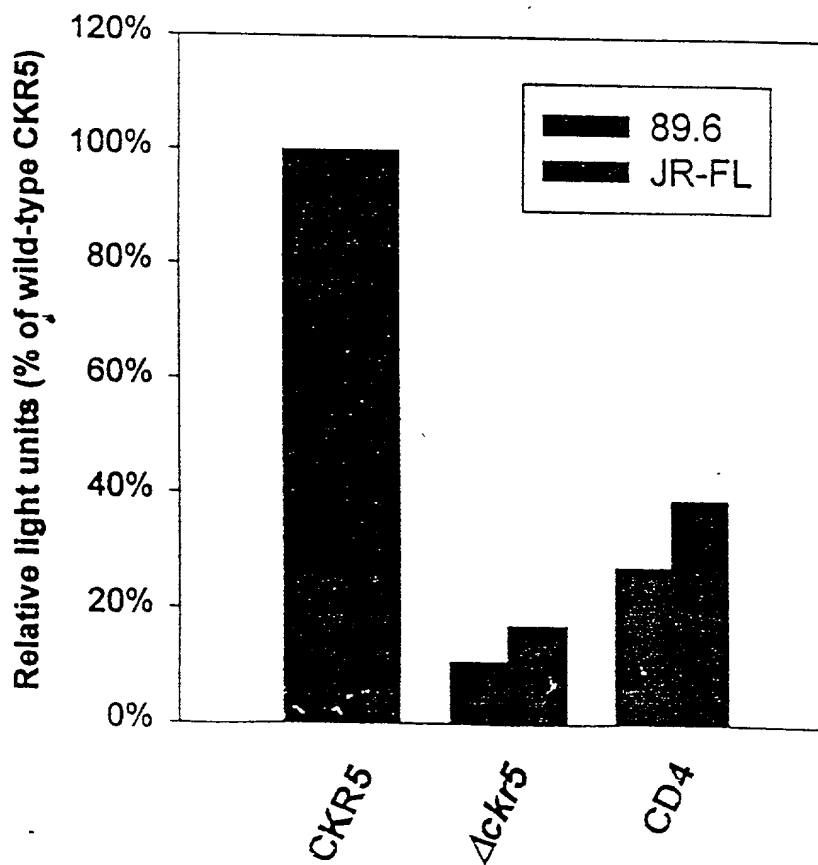


FIG. 7b

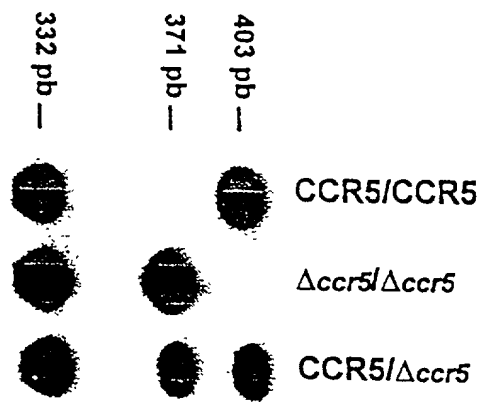


FIG. 8



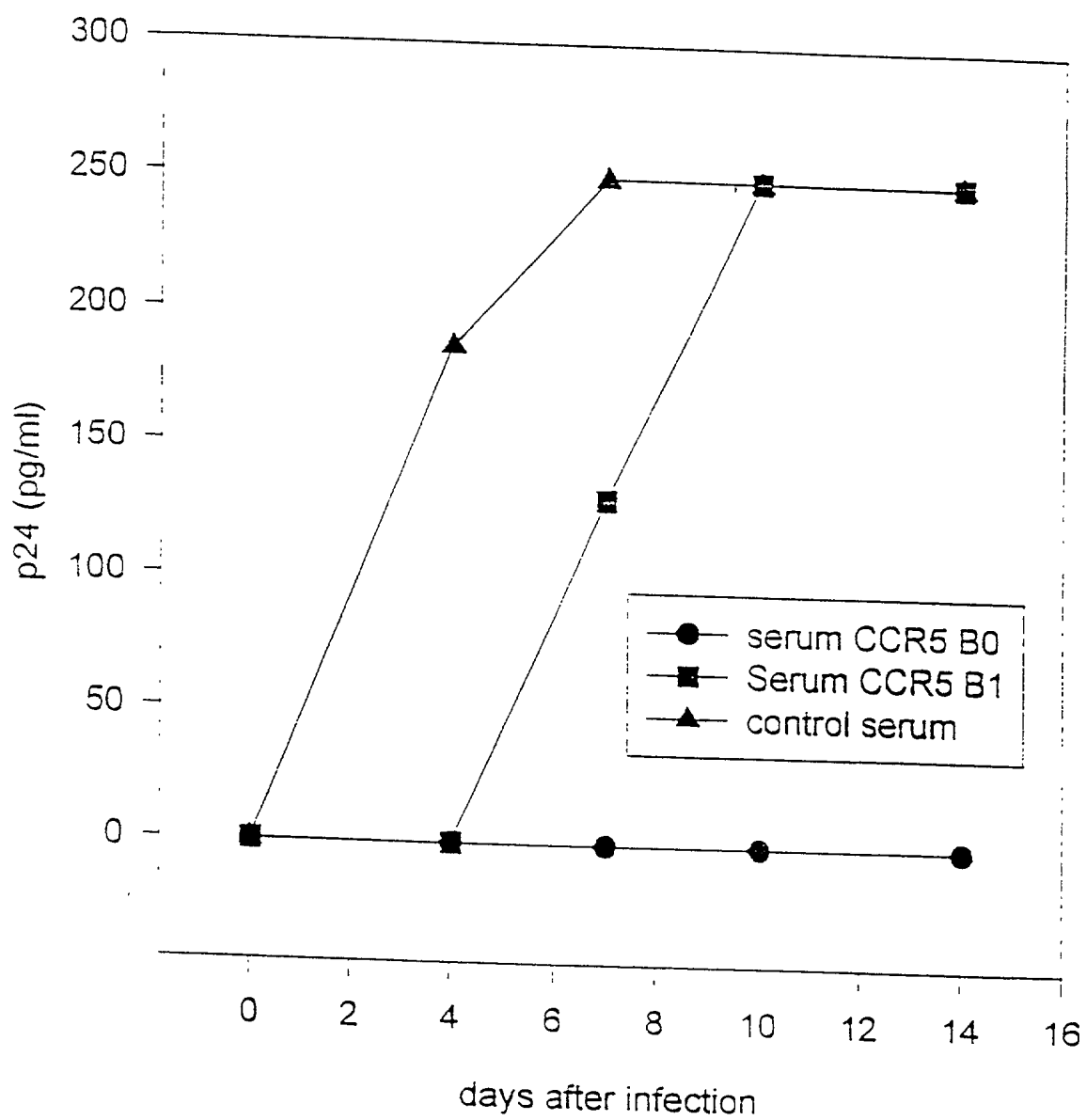


FIG.10